

Job Identification

Job Title: Structural Engineer
Division: Bailey Metal Products Limited
Department: Business Development
Reports to: Engineering Manager

Job Purpose Summary

The candidate will analyze project drawings, specifications, sketches, notes, and other input material to determine the best approach to complete structural design drawings as well as shop drawings for floors and walls. The incumbent will also review and ensure the accuracy of the construction drawings and material orders produced by other team members. The Structural Engineer must be well versed in various structural design software packages. The candidate must be able to work collaboratively with other team members to produce high quality structural designs and detailed construction documents.

Responsibilities and Accountabilities

The responsibilities and accountabilities of the position include but are not limited to the following:

- Be able to design structural building components including both vertical and lateral loads.
- Prepare clear concise design calculations using handwritten or computer generated calculations.
- Prepare Structural drawings of various project stages (conceptual and presentation drawings, preliminary design, construction drawings, workshop drawings, etc.) by following standard engineering practices and procedures.
- Design of concrete, structural steel as well as cold formed steel.
- Understanding of Canadian and American Building Codes in solving design challenges.
- Coordinate the design with other disciplines and check the drawings for interferences.
- Manage several projects at one time paying particular attention to time management and project scheduling requirements.
- Review and interpret engineering specifications.
- Work closely with the team members to ensure drawings are accurate and completed on time.
- Prepare of estimates.
- Assign and check assignments and deliverables of engineering technologists and/or technicians.
- Analyze structural and architectural drawings and develop design proposals with integration of company's structural products.
- Liaising with managers, clients and a variety of professionals including architects, engineers and Work within the project team environment from conceptual and preliminary stages of the project design through to completion.
- Develop material takeoffs, cost estimates and prepare manufacturing orders.
- Maintain project drawing files, drawing library, associated records, transmittals and documentation.
- Remain updated on current professional practices and maintain a high awareness of new products and procedures in industry.

- Maintain a high standard of professional knowledge, ethics and practices when dealing with customers, suppliers, peers, subordinates, supervisors and other key stakeholders of the company.
- Understand, support and adhere to the company's health and safety policies, programs and procedures by communicating and promoting health and safety awareness to coworkers and subordinates.
- Participate in the Company inventory counts.
- Other responsibilities and accountabilities as assigned.

Qualifications

- Bachelor degree in civil/structural engineering.
- At least five (5) years of demonstrated success in the functions outlined in the above job responsibilities.
- Proficient in structural design software, as well as AutoCad.
- BIM modeling and detailing experience using REVIT and/or 3D modeling & rendering software is an asset.
- Ability to work in a fast paced design-build construction environment.
- Ability to produce accurate work with attention to detail on time and within budget.
- Team oriented and able to see projects through to completion.
- Proficient in MS Office programs (Word & Excel).
- Proficient in reading and understanding architectural, civil structural drawings and specifications.
- Self-starter that can work with little to no supervision.
- Strong organizational skills, positive attitude, and an ability to learn quickly.

Working Conditions

- Overtime as required.
- Some travel may be required.
- Must be able to use computer keyboard and focus attention to PC monitor for prolonged periods of time.